

# COMPUTER INTEGRATED MANUFACTURING SYSTEMS

## Index to Volume 8 (1995)

Number 1 (February) 1-72  
Number 2 (May) 73-168

Number 3 (August) 169-234  
Number 4 (November) 235-290

### Article index

#### Number 1

- Review of research in tooling technology, process modelling and process planning. Part I: Tooling and process modelling  
*P.G. Maropoulos* 5
- Review of research in tooling technology, process modelling and process planning. Part II: Process planning  
*P.G. Maropoulos* 13
- Enterprise integration modelling: a review of theory and practice  
*A.K. Patankar and S. Adiga* 21
- On-line scheduling in metal removal processing using viable routings and control strategies  
*A.G. Mamalis, I. Malagardis and E. Pachos* 35
- Computer assisted machine tool part-program optimization  
*G.N. Blount and M.A. Rahbary* 41
- Feature recognition methodology for shearing operations for sheet metal components  
*R. Jagirdar, V.K. Jain, J.L. Batra and S.G. Dhande* 51
- Evaluation of vendor documentation in the acquisition of MRP and related manufacturing software  
*P. Barrar* 63

#### Number 2

- Design and evaluation of human centred CIM systems  
*L. Uden* 83

### Author index

- Acaccia, G.M. 185  
Adiga, S. 21  
Ainger, A.W.S. 105  
Ang, C.L. 279  
  
Bálint, L. 133  
Barrar, P. 63  
Batra, J.L. 51  
Blount, G.N. 41

- Development and implementation of a dispersed decision process: an FMS scheduling example  
*S.-K. Kung and J.R. Marsden* 93
- The helical approach to software design  
*A.W.S. Ainger* 105
- Solving problems in production scheduling  
*R. Lane and S. Evans* 117
- Human-computer interaction issues in developing a bearing design support system: a case study  
*K. Cheng and W.B. Rowe* 125
- Adaptive human-computer interfaces for man-machine interaction in computer-integrated systems  
*L. Bálint* 133
- Evaluating human/machine interaction problems in advanced manufacturing  
*J. Stahre* 143
- Study of the practicalities of human centred implementation in a British manufacturing company  
*I.S. Fan and R. Gassmann* 151
- Cooperation in understanding user needs and requirements  
*L. Macaulay* 155

#### Number 3

- Studies on process plan representation in CAPP systems  
*S.R.K. Jasthi, P.N. Rao and N.K. Tewari* 173
- Pilot CIM implementation for lean engineering experimentation  
*G.M. Acaccia, M. Callegari, R.C. Michelini, R. Milanesio, R.M. Molfino and A. Rossi* 185
- Review of surface representations and fitting for reverse engineering  
*P.N. Chivate and A.G. Jablokow* 293

- Callegari, M. 185  
Cheng, K. 125  
Chivate, P.N. 193  
Culley, S.J. 205  
  
Dhande, S.G. 51  
  
Evans, S. 117  
  
Fan, I.S. 151

- Review of fast tool change systems  
*G. Gest, S.J. Culley, R.I. McIntosh, A.S.R. Mileham and G.W. Owen* 205
- Integration of product and design data using a metadata- and a rule-based approach  
*D. Ruland and T. Spindler* 211
- Design for speed: a supply chain perspective on design for manufacturability  
*N.P.H. Nielsen and J. Holmström* 223

#### Number 4

- Organizational foundations of intelligent manufacturing systems - the holonic viewpoint  
*L. Mathews* 237
- Process planning with multi-level fuzzy decision-making  
*Z. Zhao* 245
- Multimedia/hypermedia in CIM: state-of-the-art review and research implications (Part I: State-of-the-art review)  
*R.F. Leung, H.C. Leung and J.F. Hill* 255
- Multimedia/hypermedia in CIM: state-of-the-art review and research implications (Part II: Research implications)  
*R.F. Leung, H.C. Leung and J.F. Hill* 261
- Flexible computer systems open to future adjustments  
*J. Hensgens* 269
- Knowledge-based approach to the generation of IDEF0 models  
*C.L. Ang, M. Luo and R.K.L. Gay* 279

### Book reviews 166, 229

- Gassmann, R. 151  
Gay, R.K.L. 279  
Gest, G. 205  
  
Hensgens, J. 269  
Hill, J.F. 255, 261  
Holmström, J. 223  
  
Jablokow, A.G. 193  
Jagirdar, R. 51

Jain, V.K. 51  
 Jasthi, S.R.K. 173

Kung, S.-K. 93

Lane, R. 117  
 Leung, H.C. 255, 261  
 Leung, R.F. 255, 261

McIntosh, R.I. 205  
 Macaulay, L. 155  
 Malagardis, I. 35  
 Mamalis, A.G. 35

Maropoulos, P.G. 5, 13  
 Marsden, J.R. 93  
 Mathews, J. 237  
 Micheline, R.C. 185  
 Milanesio, R. 185  
 Mileham, A.R. 205  
 Molino, R.M. 185

Nielsen, N.P.H. 223

Owen, G.W. 205

Pachos, E. 35  
 Patankar, A.K. 21

Rahbary, M.A. 41  
 Rao, P.N. 173  
 Rossi, A. 185  
 Rowe, W.B. 125  
 Ruland, D. 211

Spindler, T. 211  
 Stahre, J. 143

Tewari, N.K. 173

Uden, L. 83

Zhao, Z. 245

## Keyword index

adaptable systems 269  
 adaptive interfaces 133  
 alternative plans 245  
 architectures 21

bearing design 125

CAM 173  
 CAPP 173, 245  
 cellular manufacturing 151  
 changeover 205  
 CIM 21  
 classification scheme 279  
 computer-based design 125  
 computer integrated manufacturing 255, 261  
 computer-integrated systems 133  
 continuous improvement 151  
 co-operative evaluation 83  
 customization of reference models 279  
 cross-disciplinary 143

decision support 117, 143  
 design for speed 223  
 design support system 125  
 design task 211  
 detailed scheduling 117  
 distributed decision making 93  
 documentation 63  
 dynamic optimization 41

enterprise 21  
 entity groups 51  
 evaluation 63

feature recognition 51

flexible manufacturing systems 93  
 fuzzy decisions 245

generic model 279  
 geometric modelling 193

Helical Project LifeCycle 105  
 holonic system 237  
 human-centred 151, 155  
 human-centredness 133  
 human centred systems 83  
 human-computer interaction 125, 133, 269  
 hypermedia 255, 261

IDEF0 model 279  
 integration 21  
 intelligent manufacturing 185, 237  
 intelligent systems 269

joint application design 83

knowledge base 279  
 knowledge-based system 279  
 knowledge-based techniques 211

laboratory experiment 93  
 lean engineering 185

man-machine systems 133  
 manufacturing 143, 155  
 manufacturing software 63  
 master scheduling 117  
 META-NDB 211  
 model 143  
 modelling 21, 173  
 multimedia 255, 261

NC program optimization 41

object-oriented simulation 185  
 on-line scheduling 35  
 operator 143

partial model 279  
 participatory design 83  
 process modelling 5, 13  
 process planning 13, 245  
 problem solving 117  
 prototyping 83

quality information system 255, 261

reference model 279  
 representative 'stakeholders' 155  
 reverse engineering 193

shearing operations 51  
 sheet metal components 51  
 simulation program 35  
 software design 105  
 supply chain 223  
 surface fitting 193  
 sustaining performance 151

tool change 205  
 tooling management 5  
 tooling technology 5, 13

variable routing/control strategies 35  
 variety 223  
 verification systems 41

work organization 237

